

SAFETY DATA SHEET

Item Code: N6050

Section 1. Identification of the material and the supplier

Item Code: N6050
 Product: MAP-Pro Premium Hand Torch Fuel
 Product Use: Hand Torch Fuel

New Zealand Supplier: Realcold Ltd
 Address: 9 Prescott Street
 Penrose, Auckland
 Telephone: 09 526 5700
 Fax Number: 09 526 5721
Emergency Telephone: 09 526 5700
0800 766 764 (National Poison Centre)

Manufacturer: Worthington Cylinder Corp, 200 Old Wilson Bridge Rd
 Columbus, Ohio, USA

Date of MSDS Preparation: 26 April 2012 – version 1

Section 2. Hazards Identification

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

Group Standard & EPA Approval Code:
 Compressed Gas Mixtures (Flammable) Group Standard 2006 – HSR002532

Pictograms



Flammable Gas

HSNO Class.	Hazard Code	Hazard Statement	EU Risk Phrases
-------------	-------------	------------------	-----------------

2.1.1A	H220	Extremely flammable gas.	R11
--------	------	--------------------------	-----

Prevention Code	Prevention Statement	Safety Phrases
-----------------	----------------------	----------------

P103	Read label before use.	
P104	Read safety data sheet before use	
P210	Keep away from heat, sparks or open flames. No smoking.	S16

Response Code Response Statement

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.

Storage Code Storage Statement

P403	Store in a well-ventilated place.
------	-----------------------------------

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Propylene	99.5-100	115-07-1
Propane	0-0.5	74-98-6

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
If on Skin	Remove contaminated clothing and wash skin with warm soapy water. In case of frostbite, place affected area in warm water or wrap in blankets if warm water is not available. DO NOT USE HOT WATER. Seek immediate medical attention.
If Swallowed	Risk of ingestion is extremely low. Seek immediate medical attention in cases of ingestion or oral exposure.
If Inhaled	Remove to fresh air. Administer oxygen or artificial respiration if necessary. Seek immediate medical attention.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Gas
General Hazards	Liquid releases vapors that readily form a flammable mixture with air. Dangerous fire and explosion hazard when exposed to heat, sparks or flame. Vapors are heavier than air and may travel long distances to a point of ignition. Container may explode in heat or flame
Suitable Extinguishing media	Dry chemical, foam, carbon dioxide, Halon or water.
Precautions for firefighters and special protective clothing	Wear full protective gear. Use extreme caution when fighting liquefied petroleum gas fires. Heated containers may rupture violently and suddenly without warning due to vessel overpressure (BLEVE-boiling liquid expanding vapor explosions). If safe to do so stop the flow of gas and allow the flame to burn out. Extinguishing the flame before shutting off the supply can cause formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use water to cool equipment, surfaces and containers exposed to fire and excessive heat.

HAZCHEM CODE	2YE
---------------------	------------

Section 6. Accidental Release Measures

Evacuate area of all unnecessary personnel. Remove or shut off all sources of ignition. Ventilate the area thoroughly

Section 7. Handling and Storage
--

Handling Keep away from flame, sparks and excessive temperatures. Use only in well-ventilated areas.

Storage Store in a cool, dry, well-ventilated area away from sources of ignition, strong oxidizers or other incompatible materials. Post "No Smoking or Open Flame" signs in the storage and use areas. Protect cylinders against physical damage. Do not cut, drill, grind or weld on empty cylinders since they may contain explosive residues. Do not attempt to refill cylinders.

Section 8 Exposure Controls / Personal Protection
--

Engineering Controls

Good industrial hygiene practice requires that engineering controls be used where feasible to reduce workplace concentrations of hazardous materials. Use adequate ventilation to keep gas and vapor concentrations of this product below the occupational exposure and flammability limits, particularly in confined spaces. Use mechanical ventilation that is explosion proof.

Personal Protection

Respiratory Protection:

Maintain oxygen levels above 19.5% in the workplace, Respirators must be worn if ambient concentrations of contaminants exceed prescribed exposure limits. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134). Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. When required, only NIOSH approved respirators should be used.

Protective Clothing:

Protective clothing should be worn to prevent skin contact. Protective gloves should be worn as required for welding or burning. Use insulated gloves where there is the possibility of liquid contact.

Eye Protection:

Use safety glasses or goggles as required for welding or burning. Use splash-proof goggles or faceshield where there is the possibility of liquid contact.

Section 9 Physical and Chemical Properties

Appearance	Colourless Gas
Odour	Hydrocarbon
Flash Point	-107.7°C
Boiling Point	-47.7°C
Lower & Upper Flammability Limits	2.0% - 11.0%
Auto-ignition Temperature	497°C
Percent Volatile by weight	100
Specific Gravity	0.52 (liquid)
Solubility in Water	Slight
Molecular Weight	42 (propylene)

Product Name: MAP-Pro Premium Hand Torch Fuel
Date of MSDS: 26 April 2012

Item No: N6050

Issued by: Realcold Ltd
Tel: +64 9 526 5700

Vapour Pressure 109.73 psig @ 21°C
Vapour Density (air = 1) 1.5 @ 0°C

Section 10. Stability and Reactivity

Stability of Substance Stable
Conditions to Avoid Sources of heat, sparks or flame
Incompatible Materials Strong oxidisers such as nitrates, perchlorates, chlorine and fluorine
Hazardous Decomposition Products Carbon oxides and various hydrocarbons formed when burned

Section 11 Toxicological Information

Overview: This product contains propylene a colorless liquid that rapidly turns into a gas at standard atmospheric temperatures and pressure. Propylene has a slight hydrocarbon odor. In commerce propylene is packaged as a Liquefied gas under pressure. Propylene is extremely flammable and explosive. At high concentrations it acts as a simple asphyxiant by diluting and displacing oxygen, particularly in confined spaces. Direct contact with liquefied product may cause freeze burns and frostbite. Use this product only in well ventilated areas and, where appropriate, proper respiratory protection and personal protective equipment should be worn.

Primary Entry Routes: Inhalation

Target Organs: Respiratory system

Potential Health Effects:

Inhalation: Product is an anesthetic at high concentrations. Inhalation may cause central nervous system depression producing dizziness, drowsiness, headache, and similar narcotic symptoms. Extremely high concentrations can cause asphyxiation and death by displacing oxygen from the breathing atmosphere.
Eyes: Vapor is generally non-irritating to the eyes. Contact with liquefied gas or rapidly expanding gases may cause freeze burns and frostbite.
Skin: Vapor is generally non-irritating to the skin. Contact with liquefied gas or rapidly expanding gases may cause freeze burns and frostbite.
Ingestion: Ingestion is not likely.

Medical Conditions Aggravated by Exposure:

Chronic diseases or disorders of the respiratory system.

Toxicological Information: Propylene is an anesthetic and is mildly irritating to the mucous membranes. At high concentrations propylene acts as a simple asphyxiant without significant potential for systemic toxicity. High concentrations can cause death due to oxygen depletion. Toxicity data can be found in the Registry of Toxic Effects of Chemical Substances available on-line from the National Institute for Occupational Safety and Health (NIOSH).

Section 12. Ecotoxicological Information

Not known to be a hazard to the environment

Section 13. Disposal Considerations

A compressed gas container must be disposed of by—

- removing all traces of the substance from the container by a method that may include purging; and
- rendering the container unserviceable so that it can no longer be used to contain a substance by a method that may include—
 - (i) destroying the container neck thread; or
 - (ii) cutting the pressure retaining portion into pieces; or

(iii) by crushing until the sides meet; and

- either recovering the container material at a recycling facility or disposing of the non-serviceable container to a waste treatment facility.
- Keep empty container out of reach of children
- Do not incinerate

Section 14 Transport Information

Classified as a Dangerous Good for transport

Road and Rail Transport (in NZ ; NZS 5433:2007)

UN No: UN1077
Class-primary 2.1
Packing Group None allocated
Proper Shipping Name: PROPYLENE

Air Transport

UN No: UN1077
Class-primary 2.1
Packing Group None allocated
Proper Shipping Name: PROPYLENE

Marine Transport

UN No: UN1077
Class-primary 2.1
Packing Group None allocated
Proper Shipping Name: PROPYLENE

Section 15 Regulatory Information

EPA Approval Code:

Compressed Gas Mixtures (Flammable) Group Standard 2006 – HSR002532

HSNO Classification: 2.1.1A

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	100kg
Location Certificate	100kg
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250 kg / 100 m ³ 50 kg within a building
Emergency Response Plan trigger Quantities	300kg

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

Issue Date: 26 April 2012

Review Date: 26 April 2017